General Specification	
Frequency Range	UHF:350-390MHz 400-480MHz VHF:136-174MHz [A720T(Ex)only]
Channel Capacity	32CH/1600CH
Channel Spacing	25 kHz/12.5 kHz
Operation Temperature	-25 °C∼+60 °C
Frequency Stability	±1.5 ppm
Operation Voltage	7.2VDC
Antenna Impedance	50Ω
Microphone Impedance	2.2ΚΩ
Battery Life (5-5-90 duty cycle)	Li-ion DC7.2V 2400mAh
Dimension(height*width*thickness)	A720T(Ex):125.9mm x 53.9mm x31.8mm
Weight	305g (with battery and antenna)

25K≤0.22uV(12dB SINAD) 12.5K≤0.25uV(12dB SINAD)
0.22uV (BER 5%)
25K≥45 dB 12.5K≥40 dB
25K≥70 dB 12.5K≥65 dB
25K≥65 dB 12.5K≥65 dB
≥70dB
≥ 1000 mW
≤5%

Receiver	
RF Power	<3.5W; rated:2.5W
FM Modulation	25kHz: 16KΦF3E 12.5kHz: 8KΦF3E
4FSK Digital Modulation	12.5kHz data 7K60FXD 12.5 kHz data and voice 7K60FXW
Digital Vocoder Type	AMBE+2TM
Digital Protocol	ETSI-TS102 361-1,-2
Harmonic	≥70 dB
Rated Audio Distortion	<-45 dB@25kHz <-40 dB @12.5kHz
Audio distortion	≤ 5%
Max. Frequency Deviation	5 kHz@25kHz 2.5 kHz @12.5kHz

All specifications are subject to change without notice due to continuous development.

Standard Accessories



BC-780A









Belt clip

AB-L2478Ex 2400mAh Optional Accessories: Multi AC adapter, Earphone, Programming cable.











Dealer Area

ABELL INDUSTRIES CO., LTD Website:www.abell.com.cn E-mail:sales@abell.com.cn







Application



Oil & Gas



Coal transportation



Fire rescue Manufacturing



Steel manufacturing



Industrial mining

Intrinsically Safe standard:

Comply to the standard EX ib IIB T4, the radio can be used at the sites with inflammable gas, also at the sites with high level dust. A720T(Ex) is the dual explosive proof radio for both gas and dust, which fits for use in various fields, like firefighting, chemical, petroleum, and natural gas etc.

High interference:

A720T(Ex) use the AFC discrete VCO design, which leads the discrete receive channel in narrowband. maintain the high level anti-interference parameters. Support the use in the complex electromagnetic environment.

High performance explosive safe battery:

2400 mAh high performance Li-ion battery cell originated from Panasonic, with super strict explosive IP67 dustproof and waterproof proof circuit, maintains both the safety and longer use time, the maximum standby time is up to 60 hours.

Crystal clear voice:

Comply to ETSI DMR digital standard, with the digital noise reduction, and digital audio encryption technology, the radio provides crystal clear and loud voice, even at the noisy sites or with the weak signal received.

Harsh IP proof level:

Adopt the IP67 dustproof and waterproof design, the radio is submersible at the depth of 1 meter up to 30 minutes, function well. The wonderful sealing ensures the board inside un-eroded in the harsh usage cases.

Certificate complied:

FCC

